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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,986	09/19/2005	Norio Sakai	36856.1370	3417
	7590 11/16/2007 NUFACTURING COM	EXAMINER		
MURATA MANUFACTURING COMPANY, LTD. C/O KEATING & BENNETT, LLP			VU, HUNG K	
8180 GREENSBORO DRIVE SUITE 850			ART UNIT	PAPER NUMBER
MCLEAN, VA 22102			2811	
		÷	NOTIFICATION DATE	DELIVERY MODE
		·	11/16/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JKEATING@KBIPLAW.COM uspto@kbiplaw.com

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	Application No.	Applicant(s)				
	10/549,986	SAKAI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hung Vu	2811				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time-may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be ting 17 iiii apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE	N. mely filed the mailing date of this communication. TO (35 U.S.C. 6.133)				
Status						
1) Responsive to communication(s) filed on 09 Au	<u>igust 2007</u> .	.*				
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims		•				
4)⊠ Claim(s) 10-35 is/are pending in the application	1					
	4a) Of the above claim(s) <u>17-22 and 30-35</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) 10-16 and 23-29 is/are rejected.	•					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	•					
		Fxaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
<u> </u>	priority under 35 H S C & 119/a)-(d) or (f)				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents	s have been received					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior						
application from the International Bureau		· ·				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Paper No(s)/Mail Date Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>09/19/05,01/09/06,08/22/07</u> , 12/22/06	6) Other:					

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Invention of Embodiment 4 of Figures 4 and 6, Claims 10-16 and 23-29 in the reply filed on 08/09/07 is acknowledged.

Claims 17-22 and 30-35 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 08/09/07.

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 10-15 and 23-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Takehara et al. (US 2003/0071350, of record).

Takehara et al. discloses, as shown in Figures 1-9, a ceramic multilayer substrate comprising:

surface of the resin layer.

a ceramic laminate (2) including a plurality of ceramic layers, having a first main surface (bottom surface of layer 2), and including internal circuit elements (8,9) disposed inside of the laminate;

a resin layer (10) having a bonding surface (upper surface of 10) in contact with the first main surface of the ceramic laminate and a mounting surface (lower surface of 10) opposite to the bonding surface;

external electrodes (4), each disposed on the mounting surface of the resin layer and electrically connected to at least one of the internal circuit elements of the ceramic laminate; at least one of a ground electrode, a dummy electrode, and a capacitor electrode (13) disposed at an interface between the first main surface of the ceramic laminate and the bonding

Regarding claim 11, Takehara et al. discloses the at least on of the ground electrode, the dummy electrode and the capacitor electrode includes a metal that is integral with the ceramic laminate [Figures 1-9].

Note that the terms "laminate" and "sintered" are method recitations in a device claimed.

"[E]ven though product-by-process claims are limited by and defined by the process,

determination of patentability is based on the product itself. The patentability of a product does

not depend on its method of production. If the product in the product-by-process claim is the

same as or obvious from a product of the prior art, the claim is unpatentable even though the

prior product was made by a different process." *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ

964, 966 (Fed. Cir. 1985).

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Regarding claims 12 and 25, Takehara et al. discloses the substrate further comprising a first circuit component (1a,1b,1c) mounted on the first main surface and covered with the resin layer, wherein the at least one of the ground electrode, the dummy electrode and the capacitor electrode are disposed on a side that is closer to the mounting surface than the first circuit component [Figures 1-9].

Regarding claims 13 and 26, Takehara et al. discloses the first circuit component is disposed within a region defined by projecting the at least one of the ground electrode, the dummy electrode and the capacitor electrode on the first main surface [Figures 1-9].

Regarding claims 14 and 27, Takehara et al. discloses the substrate further comprising relay electrodes (not shown, section [0034]) disposed so as to extend along the first main surface, wherein electrical connection from the external electrodes to the internal circuit elements are provided through the relay electrodes[Figures 1-9].

Regarding claims 15 and 28, Takehara et al. discloses the ceramic laminate comprises a second main surface (upper surface of 2) on an opposite side to the first main surface and a second circuit component (3) is mounted on the second main surface [Figures 1-9].

Regarding claim 23, Takehara et al. discloses, as shown in Figures 1-9, a ceramic multilayer substrate comprising:

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a ceramic laminate (2) including a plurality of ceramic layers, having a first main surface (bottom surface of layer 2), and including internal circuit elements (8,9) disposed inside of the laminate;

a resin layer (10) having a bonding surface (upper surface of 10) in contact with the first main surface of the ceramic laminate and a mounting surface (lower surface of 10) opposite to the bonding surface;

external electrodes (4), each disposed on the mounting surface of the resin layer and electrically connected to at least one of the internal circuit elements of the ceramic laminate;

at least one of a ground electrode, a dummy electrode, and a capacitor electrode (13) disposed inside of the resin layer.

Regarding claim 24, Takehara et al. discloses the at least on of the ground electrode, the dummy electrode and the capacitor electrode includes a metal that is integral with the ceramic laminate [Figures 1-9].

Note that the terms "laminate", "sintered" and "baked" are method recitations in a device claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takehara et al. (US 2003/0071350, of record).

Takehara et al. discloses the claimed invention including the substrate as explained in the rejection above. Takehara et al. does not disclose a conductive case is disposed on the second main surface to cover the second circuit component. However, as shown in Figure 10, Takehara et al. discloses a conductive case (10) is disposed on a second main surface of a substrate (2) to cover the second circuit components (1,3). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form the substrate having a conductive case being disposed on the second main surface to cover the second circuit component, such as taught by Figure 10, in order to protect the circuit component from external contamination.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Vu whose telephone number is (571) 272-1666. The examiner can normally be reached on Monday to Thursday 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne A. Gurley can be reached on (571) 272 - 1670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vu

October 27, 2007

Hung Vu

Primary Examiner